Should Navy Build New Nuclear Attack Subs?

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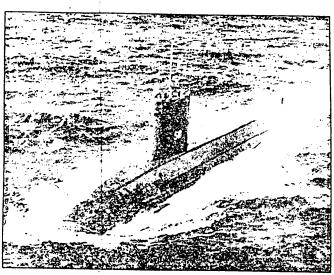
HE NAVY'S RECENT request for almost \$800 million in additional startup funds for a new class of nuclear-powered attack submarines is reviving an old question in the Congress: Should we con-tinue to buy large, expensive nuclear attack submarines, when smaller, cheaper diesel-electric submarines could handle the attack missions just as well?

The question has been based on a common misconception: that the United States does not have any diesel-electric submarines at her disposal. In fact, the U.S. and her allies have just as many (approximately 15a) diesel-electric submarines as the Soviet U.S. allies (most notably, West Germany and The Netherlands) have active diesel-electric submarine construction programs; by contrast, none of the Soviet allies builds diesel-electric submarine, preferring indicates the submarines of the soviet allies builds. stead to obtain them from their Soviet

Nevertheless, in an era of unfortunate "gold-plating" of weapons systems, U.S. lawmakers and taxpayers are well justified in closely examining the rationale for funding a new class of submarine that will cost more than \$1 billion per vessel, when advanced die-sel-electric designs can be obtained in the \$200 million range. The key question in this examination should be: Can diesel-electric submarines perform the same missions as their nuclear-powered counterparts at lower cost?

The primary mission of the U.S. attack submarine is the detection and destruction of Soviet submarines, both ballistic missile and attack varieties. The Soviet fleet deploys approximately 375 submarines, including more than 65 ballistic missile submarines (SSBNs). The U.S. attack submarine fleet numbers approximately 100 vessels. Accord-ingly, superior technology and tactics are required to overcome this vast numerical disadvantage.

Detection and destruction of the Soviet SSBN fleet will be an extremely challenging and time-sensitive task. Already respectful of U.S. attack submarine capabilities, the Soviet SSBN fleet could be expected to launch its missiles from protected sanctuaries, either close to home ports or from un-der the Arctic ice pack. Increased missile ranges and accuracies permit the Soviets this luxury.



Diesel-electric submarine Blueback (SS 581) underway. It is a misconception that the United States does not have any diesel-electric submarines at her disposal.

Attack submarines attempting to penetrate home port sanctuaries require great speed, quietness, endurance and large numbers of advanced weapons to do maxi-mum damage in the shortest amount of time. In stalking Soviet SSBNs under the ice, one of the most critical requirements is the ability to "hold one's breath" for days or weeks at a time, while searching for the telltale contact from a Soviet vessel.

In both of these mission scenarios, diesel-electric submarines are at a disadvantage. Slower speeds, fewer and less advanced weapons, and the need to "snorkel" to re charge batteries detract from the dieselelectric submarine's utility for the anti-SSBN mission. In fact, even the diesel-electric submarine's most ardent proponents do not envision using this kind of vessel for strate gic anti-submarmine warfare It is, neverthe less, important to note that nuclear powered attack submarines (SSNs) are

especially suited to this mission.

Destruction of the Soviet attack subma-

rine fleet will likely be a more free-wheeling, wide-ranging affair than attacks on S8BNs. wide-ranging affair than attacks on S8BNs. Ideally, in a crisis, most Soviet SSNs would be caught at key "choke points" as they attempt to reach the open ocean. One such "choke point" is the Greenland-Iceland-United Kingdom (GIUK) Gap. Diesel-electric submarines currently deployed with allied navies could serve a useful role in such a scenario by making the relatively short transparent by making the relatively short transparents. nario, by making the relatively short tran-sit from their northern European homeports and acting as "floating mines" or "fixed barriers" against Soviet submarines. Allied diesel-electrics now participate in this fashion in NATO naval exercises.

Once again, however, nuclear-powered attack submarines are superior to dieselelectrics in the various attack roles. In addition to being able to perform the "fixed barrier" missions, SSNs can search for Soviet SSNs during high-speed transits, and after reaching their deployment area, can search large ocean areas while remaining continuously submerged. Once a target is

acquired, SSNs can bring to bear a far greater number and variety of advanced ASW weapons than can their diesel-electric

A key attack submarine mission, which Navy Secretary John Lehman, is that of actual land attack against the Soviet Union and tual land attack against the Soviet Union and her allies, using long-range conventional and nuclear-armed Tomahawk sea-launched cruise missiles (SLCMs). Submarine-deployed SLCMs are a tremendous offensive force multiplier, requiring the Soviet Union to treat each SSN as a potential strategic reserve weapon which may come into play during a crisis. Diesel-electric submarines, due to their small size and other limitations, are not able to perform this miscise. itations, are not able to perform this mission.
Thus, in answering the question of die-

sel-electric submarine utility, it must be said that these vessels are demonstrably incathat these vessels are demonstrably inca-pable of performing the vast majority of mis-sions assigned to SSNs. This is not to say that diesel-electries do not have a place in U.S. and NATO maritime strategy: their ex-treme quietness while operating on batteries and their relatively low cost are powerful arguments for continuing to depend upon them to do the jobs that they do best. But, with only two active submarine-building vards (the Soviets have at least fixed)

building yards (the Soviets have at least five), the U.S. attack submarine fleet will have to depend upon newer, larger, more advanced nuclear attack submarines, like the SSN-21

nuclear attack submarines, like the SSN-21 Seawolf. The Soviets certainly recognize the value of such submarines: they have three new, large (6.400-8,000 metric ton) SSN classes undergoing sea trials. By contrast, their diesel-electric submarine fleet is at its lowest numerical level (83 boats) since 1933.

The laws of physics require larger vessels to insulate noisy equipment from the acoustically sensitive sea water; the laws of war dictate that each platform deploy the maximum possible number of sophisticated weapons systems. To comply with both sets ed weapons systems. To comply with both sets of laws, the U.S. attack submarine program must proceed along its present path. U.S. diesel submarine construction would represent path. sent a critical point in our drive for a modern-ized attack submarine fleet.

Representative Courter, a former Chairman of the Congressional Military Reform Cau-cus, serves on the Research and Development and Procurement Subcommittees of the House Armed Services Committee. The Republican from New Jersey is also an Official House Observer to the Geneva arms reduction negotiations.

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